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University of California.

Department of Pharmacy.

CONSTITUTION,

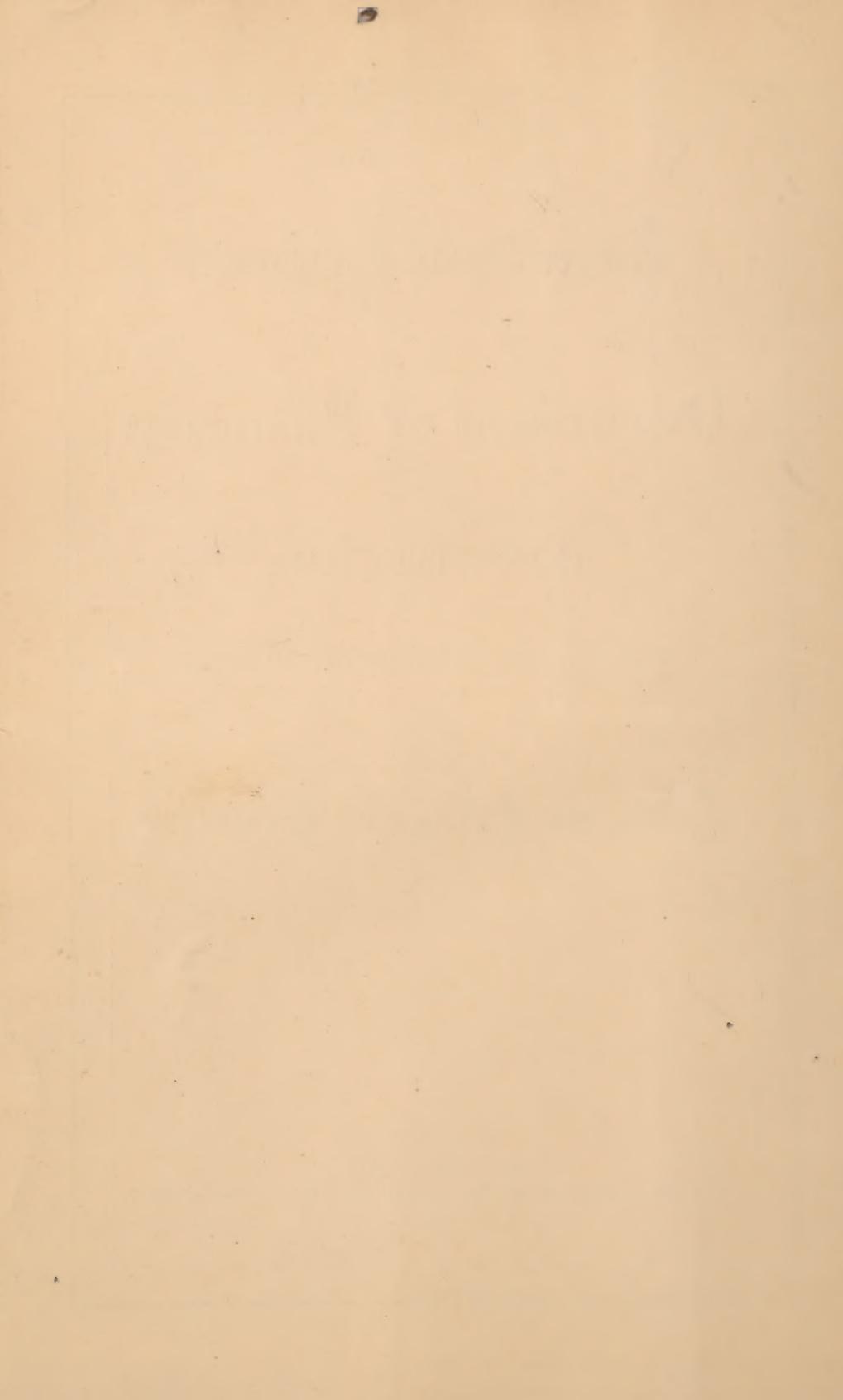
BY-LAWS AND COURSE OF INSTRUCTION

OF THE

California College of Pharmacy.

Prop. for 1873 (1<sup>st</sup>)

SAN FRANCISCO :  
ALTA CALIFORNIA PRINTING HOUSE, 529 CALIFORNIA STREET,  
1873.



Mar 1877

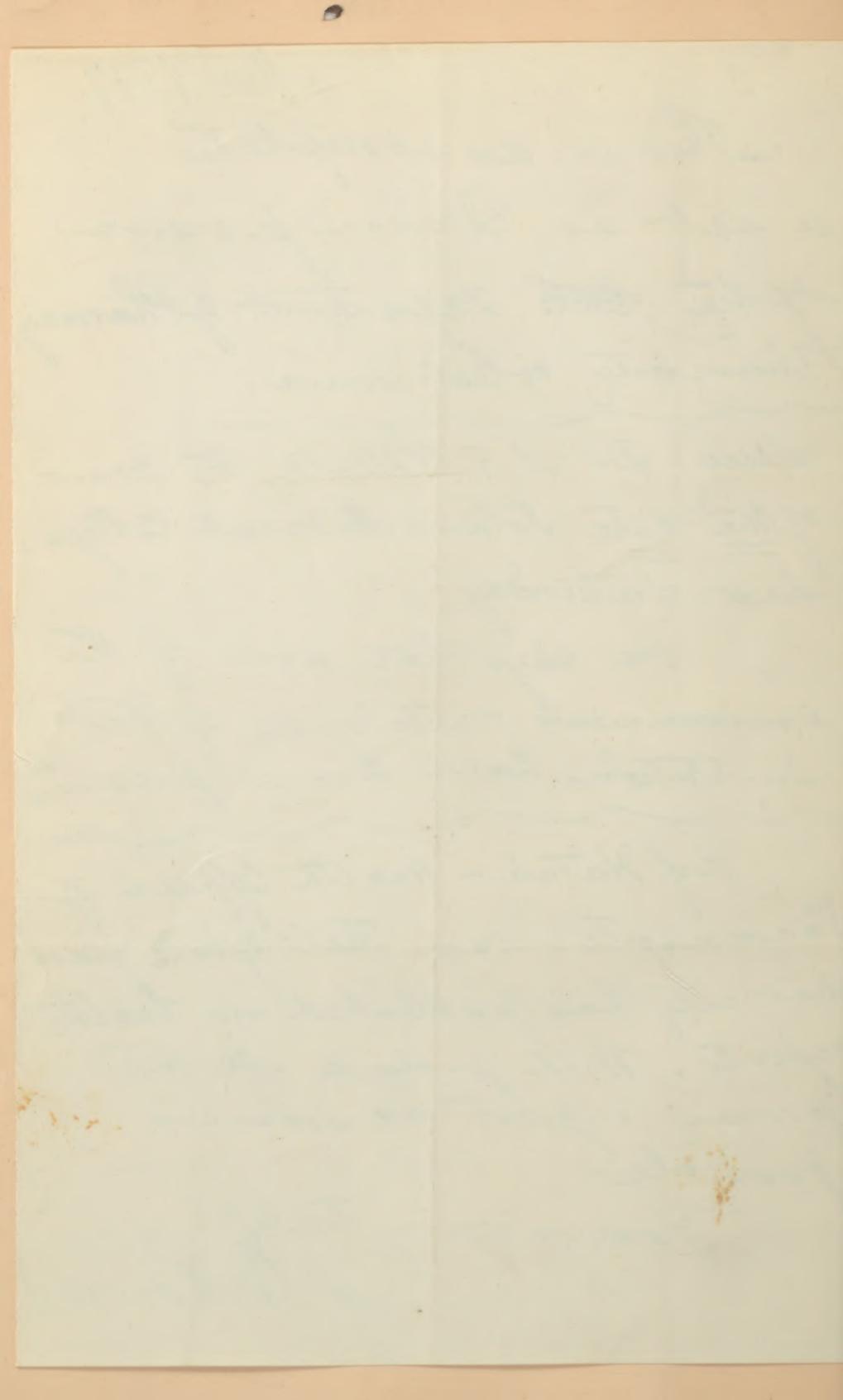
This is as complete  
a set as I can procure,  
of the ~~late~~ Department of Pharmacy  
University of California.

Saw Dr. A. J. O'Neil, the Dean  
of the late Toland Medical College,  
last Saturday -

He says that none of the  
announcements & catalogues of that  
Institution have been presented

Prof Hatch - Health Officer of  
Sacramento - says that of late years  
that city has published no health  
reports. Will procure all the  
former reports as soon as  
possible -

Yours very truly  
J. C. Howell



# California College of Pharmacy.

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CONSTITUTION,

BY-LAWS AND PROSPECTUS

OF THE

COURSE OF INSTRUCTION.

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SESSION OF 1873-'74.

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SAN FRANCISCO:

ALTA CALIFORNIA PRINTING HOUSE, 529 CALIFORNIA ST.

1873.

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# California College of Pharmacy.

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*President,*

WM. T. WENZELL.

*Vice-President,*

JOHN CALVERT.

*Secretary,*

J. WINCHELL FORBES.

*Treasurer,*

JAMES G. STEELE.

*Trustees.*

WM. T. WENZELL,

JOHN CALVERT,

JAMES. G. STEELE,

J. WINCHELL FORBES,

WILLIAM E. MAYHEW,

WILLIAM SIMPSON.

*Faculty.*

WILLARD B. RISING, - - - *Professor of Chemistry.*

J. WINCHELL FORBES, - - - *Professor of Pharmacy.*

WM. M. SEARBY, - - - *Professor of Materia Medica.*

HERM. H. BEHR, M. D. - - - *Professor of Botany.*



SAN FRANCISCO, June 20th, 1873.

The Board of Trustees of the

## California College of Pharmacy

take pleasure in announcing the affiliation of the same with the

## University of California,

in the manner set forth in the annexed agreement.

The College of Pharmacy as thus affiliated, forms one of the group of

## TECHNICAL SCHOOLS

to be established by the State, each of which is designed to be separate and distinct as regards its peculiar sphere and the work appertaining thereto, but connected by a tie similar to that uniting the various States of the Union, each occupying in relation to one another distinct and independent positions, and yet, connected through the general government of the University, considered as a *whole*.

According to the conditions of the agreement, the management of the details of the

## DEPARTMENT OF PHARMACY

rests with those best qualified to judge of their nature and requirements, *i. e., practical* pharmacists, to whom, also, is entrusted the responsible task of providing capable and practical persons as instructors. It will be seen upon reference to the form of agreement, that the position of our school as a

## COLLEGE OF PHARMACY,

is maintained in every respect.

Extract from the "Organic Act" of the University of California :

"SECTION 8. The Board of Regents may affiliate with the University, and make an integral part of the same, and incorporate therewith any incorporated college of medicine, or of law, or other special course of instruction now existing or which may hereafter be created, upon such terms as to the respective corporations may be deemed expedient; and such college or colleges thus affiliated, shall retain the control of their own property, with their own Board of Trustees, and their own Faculties and Presidents of the same, respectively, and the students of those colleges, recommended by the respective Faculties thereof, shall receive from the University, the degrees of those colleges, *provided*, however, that the President of the University shall be, *ex officio*, a member of the Faculty of each and every college of the University, and President of such Faculty."

Extract from the "Organic Act" of the University of California :

"SEC. 18. The immediate government and discipline of the several colleges, shall be entrusted to their separate Faculties and the resident professors of the same, each of which shall have its own organization, regulate the affairs of its own college, etc., etc." \* \* \* \*

#### FORM OF AGREEMENT.

"In accordance with the Organic Act of the University of California, the California College of Pharmacy is hereby affiliated with the University, upon the following basis :

"The College will maintain its own Board of Trustees, and will continue to hold its own property as if this affiliation had not been agreed upon.

"The College will also appoint its own professors and establish its own course of instruction, subject to the general approbation of the Regents of the University.

"The University will confer the degree of Graduate in Pharmacy, upon candidates recommended by the Board of Examiners of the College, and approved by a committee to be designated by the Regents.

"This agreement may be canceled by mutual consent, at any time, or by the withdrawal of either party to it, after twelve months' notice to the other party."

# CONSTITUTION.

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## ARTICLE I.

This institution shall be called the

### *California College of Pharmacy.*

Its aim shall be to unite the Pharmacists and Druggists of the Pacific States in organized efforts to elevate the special educational standard of the business of the Apothecary, by cultivating, improving, and diffusing the principles and practice of legitimate pharmacy; its collateral branches of science and the arts; the best modes of rendering available medicinal agents, by giving instructions in the same and in the art of dispensing, by a series of lectures and practical demonstrations.

## ARTICLE II.

This institution shall be governed by a Board of six (6) Trustees, who shall be elected annually by the members of the College, except in case of a vacancy occurring during the term, when it shall be filled by the election of a suitable person by the remaining members of the Board.

## ARTICLE III.

Four members of the Board of Trustees shall constitute a quorum.

## ARTICLE IV.

The Board of Trustees shall have full power to conduct the affairs of the College, both educational and financial.

## ARTICLE V.

If a Trustee neglect to attend three successive meetings of the Board without assigning a valid reason therefor, his place shall be declared vacant and filled in the manner directed in Article II.

## ARTICLE VI.

The Board of Trustees shall keep permanent minutes of their proceedings.

## ARTICLE VII.

The Board of Trustees shall appoint annually a  
President,  
Vice-President,  
Secretary and Treasurer of the College.

The Secretary and Treasurer shall be appointed from among the members of the Board.

## ARTICLE VIII.

The College shall have a common seal.

## ARTICLE IX.

The Board of Trustees shall make such By-Laws as they shall deem necessary from time to time, which shall require for adoption or alteration a two-thirds vote of the Board.

## ARTICLE X.

No person shall receive the diploma of this College, who shall possess less than four years actual experience in the drug business.

# BY-LAWS.

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## CHAPTER 1st.

### OF OFFICERS.

#### *The President.*

SECTION 1. It shall be the duty of the President to occupy the chair at the meetings of the College : enforce the laws, preserve order, give the casting vote when necessary, and render a report of the transactions of the year of his incumbency at the annual meeting following his election.

He shall, at the direction of the Board of Trustees, call special meetings of the members of the College, and shall nominate all committees not otherwise provided for.

#### *The Vice-President,*

SEC. 2. Shall occupy the chair at the meetings of the College in the absence of the President.

#### *The Secretary,*

SEC. 3. Shall keep permanent minutes of the proceedings of the College, and have in charge all papers, documents and the financial books of the College. He shall be charged with the correspondence, and the editing, printing, and distribution of all printed matter issued by the College. He shall keep the financial accounts of the College and the books pertaining thereto, receive all moneys accruing to the same from any source whatever, which shall be deposited with the Treasurer and his receipt taken therefor. He shall countersign all certificates of membership, diplomas, and all warrants upon the Treasurer, and shall render a written report of his work at each annual meeting.

*The Treasurer,*

SEC. 4. Shall have in charge all moneys received by the College.

He shall pay no moneys except on a warrant signed by the President and Secretary. He shall file with the Secretary such bonds as the Board may direct, and he shall present a true and correct statement of his accounts at each annual meeting.

*Of the Trustees.*

SEC. 5. The Board of Trustees shall exercise a general supervision of the affairs of the College, and appoint, as often as may be necessary, suitable persons as professors of such branches of science and the arts, as may be conducive to the most thorough education of Apothecaries. They shall fix the price of tickets, the remuneration of professors and such assistants as it may be found necessary to employ. They shall determine the number of lectures, the time and place at which they shall be given, adopt rules for conducting the examination of candidates for the Diploma, and all other matters in any way connected therewith.

*Of the Examiners.*

SEC. 6. The Examining Board shall be appointed by the Board of Trustees.

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## CHAPTER 2d.

### OF STUDENTS.

SECTION 1. Students of the College will be expected to conduct themselves during their presence at the College rooms with decorum and propriety. Riotous or boisterous behavior will subject the offender to expulsion and the forfeiture of his tickets.

SEC. 2. No books, specimens or other property of the College shall be taken from the rooms, except by permission of the Secretary.

SEC. 3. Regular attendance at the lectures will be required, as irregularity in this point may be deemed sufficient cause for deferring the examination of a candidate.

SEC. 4. Students will be required, before entering upon the course of instruction of the College, to sign the Constitution and By-Laws of the same.

SEC. 5. Each must obtain from the Secretary a matriculation ticket for each session, the first only being charged for.

SEC. 6. Medical students and others who may not intend to adopt Pharmacy as a profession, may be admitted to the lectures in such department as they may desire. Such persons will be ineligible to the degree; but will in other respects have the same advantages as *regular* students of Pharmacy.

SEC. 7. Students who have paid for two full courses of the lectures of this College shall be admitted free to subsequent lectures.

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## CHAPTER 3d.

### CONDITIONS OF GRADUATION.

SECTION 1. The candidate must be of good moral character, and have attained the age of twenty-one years.

SEC. 2. He must have attended two full courses of the lectures given by this College, or one of those given by some other College of Pharmacy whose conditions of graduation are based upon the like term of service, and the final course in this College.

SEC. 3. Written evidence of the four years service required by the Constitution, must be deposited with the Secretary of the College upon applying for examination.

SEC. 4. He shall at the same time deposit with the same officer, an original dissertation upon some article of the *Materia Medica*, some Pharmaceutical Process, or the details of an analysis of some chemical substance which must have been performed by himself. This manuscript must be in his own handwriting, and be executed in a neat and legible manner.

SEC. 5. He must be recommended jointly by the Professors and the Examining Board.

SEC. 6. Such recommendation must be approved by the Board of Trustees.

SEC. 7. Examinations shall only take place at the close of each course.

## CHAPTER 4th.

## DIPLOMAS.

The candidate for the diploma having complied with the conditions imposed in Chapter III, Sec. 1, 2, 3, 4, a day shall be set for his examination.

Having received the unanimous approval of the Examining Board, his application shall be laid before the Trustees by the Secretary of the College, together with the written evidence of service.

The application of the candidate having been favorably considered by the Trustees, and the Board of Regents of the University, he shall at the next regular meeting of the College be publicly declared a

*Graduate in Pharmacy,*

and his Diploma testifying thereto, signed by the President, Secretary, and Board of Examiners, and sealed with the seal of the College, shall be presented by the President, or some person appointed by him for the purpose; provided in all cases that the full requisitions of the By-Laws of the College have been complied with, and that his accounts have been balanced upon the books of the College.

# School of Pharmacy.

SESSION OF 1873-'74.

The Trustees of the

California College of Pharmacy

invite the attention of the Pharmacists of the Pacific States to a consideration of the advantages consequent upon the establishment of a

SCHOOL OF PHARMACY

in California.

While actual *Counter experience* is indispensable for the proper qualification of the Pharmacist in a business point of view, it utterly fails in that portion which alone raises his calling from the level of a trade to the dignity of a profession. While the older members of our profession have enjoyed the advantages of scientific teaching available in the older portions of the world, the young men who have embraced it on this Coast have been obliged to struggle along as best they might, in too many instances, perhaps, meeting with such discouragement as to compel them to cease all attempts at self education, and to be content with the mere *routine* knowledge attained by observation.

The attention of those proposing to engage in the retail drug business is directed to the passage of legal enactments in relation to Pharmacy in various portions of the Union, and especially to the Pharmacy Act passed at the last session of the California Legislature.

These enactments will soon be universally in force in the more prominent cities and towns of this country and the Canadas. It therefore behooves those who intend to adopt Pharmacy as a profession to properly qualify themselves to meet their requirements.

The course of instruction of this College will be such as to ensure such qualification.

The Faculty of the College will be composed of actual Pharmacists, and the practical as well as theoretical portion of the Science of Pharmacy will be thoroughly and experimentally demonstrated; the every day counter manipulations sharing equal attention with the more abtruse details of the Laboratory, as it is the aim of the management to qualify all who avail themselves of the advantages offered, to cope with any and every emergency that may arise in the transaction of the business of legitimate Pharmacy.

Confident that it will prove the wisest policy, the Trustees appeal to the Pharmacists and Druggists of the Pacific States to support them in maintaining a School of Pharmacy commensurate with the important interests involved.

# PROSPECTUS.

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The course of lectures of this Institution will be given at the Lecture Room of the College,

728 MONTGOMERY STREET,

commencing on Tuesday, July 1st, 1873, and terminating about the middle of December.

## CHEMISTRY.

Prof. Willard B. Rising occupies this chair. The lectures will be delivered on Tuesday of each week, at 7 P. M.

*Junior Course.* Physics, in which division the laws and general properties of matter—the forces of Cohesion, Adhesion, Affinity, Heat, etc., will first receive attention so far as their relation to Chemistry and Pharmacy are concerned.

This will be followed by the laws of chemical combination, chemical notation, nomenclature, etc. Elementary Chemistry will then be taken up, the important elements, especially those having pharmaceutical interest, will be very fully treated of, and their compounds will receive such degree of attention as their usefulness in Pharmacy and the arts may seem to demand.

*Senior Course.* The lectures to the advanced class will pursue the subject into Organic Chemistry, which will be studied with a view to give the student a useful degree of familiarity with organic compounds having direct pharmaceutical interest.

Toxicology, or the study of poisons, will be considered in connection with articles of an active character, together with their antidotes and means of detection.

Every important article mentioned will be shown, and the lectures will be freely illustrated by experiments, specimens and diagrams.

*PHARMACY.*

Prof. J. Winchell Forbes occupies this chair. The lectures will be delivered on Tuesday of each week at 8 P. M.

*Junior Course.* This course will begin with instruction in the art of weighing and measuring and will involve the study of the systems of weights and measures authorized by the United States and British Pharmacopœias; also the French or Metrical system. Specific Gravity will then be treated of, with practical demonstrations of the manipulations required.

The processes of drug powdering and sifting, solution, filtration, maceration, percolation, re-percolation, evaporation, distillation, etc., will be fully explained, and the apparatus necessary for their proper performance will be shown in use.

The study of the Officinal Preparations will follow, it being the object of the lecturer to lead the student, gradually from the study of the simple and easily made preparations of the Pharmacopœia to those of greater complexity in composition, and requiring skillful manipulation for their correct preparation.

*Senior Course.* In this course the more difficult officinal preparations will be considered, and whenever practicable the processes will be illustrated by actual practice on the scale of the Pharmacopœia.

The officinal organic acids, alkaloids, resins and such other proximate principles as may not be treated of in the other departments of the school, will receive such attention as their importance may demand.

The study of such chemical preparations as admit of being made safely and profitably by the dispensing Pharmacist, as for example the various scaled salts of iron, and the many chemical solutions, officinal and non-officinal, that are required by the Physician, come within the scope of these lectures.

Extemporaneous pharmacy will conclude the course. It will include the construction of formulas, and the art of combining medicinal agents, and their exhibition in proper and effective forms, the making of pills, suppositories, ointments, mixtures, etc.

*MATERIA MEDICA.*

Prof. Wm. M. Searby occupies this chair. The lectures will be delivered on Friday of each week at 7 P. M.

The lectures on *Materia Medica* will be devoted to those substances, chiefly of vegetable origin, which are used in medicine, and which are included under the general designation of *drugs*.

These articles will be treated of in a systematic manner, notice being taken of the sources from which they are derived, their natural and commercial history, principal constituents and remedial qualities. The ordinary and toxical doses, with antidotes to the latter, will receive careful consideration.

The students will be instructed as to the proper time for collecting the various vegetable products, as well as the best modes of preserving them. Close attention will be called to their physical properties as met with in trade, and to the leading characteristics of each drug. Substitutions, adulterations, and natural impurities, with the methods of detecting the same, will be duly considered, as also the distinguishing features observed in articles of superior and inferior quality.

*BOTANY.*

Prof. Herm H. Behr, M. D., occupies this chair. The lectures will be delivered on Friday of each week at 8 P. M.

*JUNIOR COURSE.*

*Elementary Botany.* The teaching of the Junior Course will be confined to the structure of plants and the functions of their parts.

*Organs of Vegetation.* Root, caul, rhizome, corm, bulb, gemma, leaf, membrane, fibre, tissue, etc.

*Organs of Reproduction.* Flower, calyx, corolla, stamen, pistil, disk, fruit, seed, etc.

*SENIOR COURSE.*

*Systematic Botany.* Systematic Botany will take into consideration the modes of arranging plants according to

1. The Linnæan or artificial system.
2. The Natural System, or classification according to natural affinities.

Toward the end of the course attention will be given to the geography of plants, and the influence of light, heat, air, moisture, etc.

Excursions will be made into the country occasionally during the season, for the purpose of studying and collecting indigenous plants, under the direction of the Professor.

#### *FEES.*

Lecture Ticket (for the season) - - -	\$50.00
Matriculation Ticket (paid only once) - - -	2.50
Diploma Fee - - -	10.00

Matriculation Tickets must be obtained invariably before the beginning of the course.

Tickets can be obtained of the Secretary at the Rooms of the College, 728 Montgomery Street, ten days previous to the commencement, between the hours of 12 M. and 4 P. M.

Two gold medals will be awarded by the College : One to the student who shall pass the best general examination, and the other to the student submitting the best essay or thesis.

#### *TEXT BOOKS.*

Fownes' Chemistry. American Edition, 1872.

U. S. Dispensatory.

Morfit's Chemical Manipulations.

Pareira's *Materia Medica*. (Edited by H. C. Wood)

Gray's First Lessons in Botany.



